

Arvados - Bug #4700

[Workbench] Websocket client should only subscribe to events about relevant objects, not all events.

12/02/2014 03:28 PM - Tom Clegg

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assigned To:		% Done:	0%
Category:	Workbench	Estimated time:	0.00 hour
Target version:	Arvados Future Sprints		
Description			
<p>Currently, Workbench subscribes to all events. This means it receives every log message from every (readable) job that is running -- even when viewing the pipeline_templates#show page where none of those log messages will ever result in a visible change. This can cause excessive resource use, for example, when an administrator has a few Workbench tabs open while a user is running jobs with chatty stderr or making updates to collections with large manifest_text.</p> <p>Ways to improve:</p> <ul style="list-style-type: none">• Use filter ['object_uuid','in',uuids] where uuids are the ones mentioned in data-object-uuid attributes.• Use filter ['event_type','=', 'update'] when there is no .arv-log-event-listener on the page. (Rather than special-case this, each listening element could provide a space-delimited data-listen-to-event-types attribute, e.g., "update" for most listeners, and "update stdout stderr" for the log viewer.) <p>Implementation notes:</p> <ul style="list-style-type: none">• Make sure the list of interesting uuids gets updated in/after the .arv-log-event-subscribe-to-pipeline-job-uuids handler in pipeline_instances.js.• The websocket service has a hard limit (not discoverable in advance, but currently 16) on the number of active filters in use by a single connection. To avoid hitting this limit, Workbench could do "subscribe {new filters}; unsubscribe {old filters}" each time its selection criteria change.			

History

#1 - 12/02/2014 03:59 PM - Tom Clegg

- Description updated

- Category set to Workbench